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L14: Entry 3 of 4

File: USOC

Jan 17, 1950

DOCUMENT-IDENTIFIER: US 2494599 A

TITLE: Means for photographically producing a plurality of assemblages of

preselected data

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5 being controlled by a further solenoid 821-- lo,6ated,' in the power circuit 64, through int6rmediate mechanism to open temporarily said shutter when: the solenoid is energized. The sensitized strips in both instane6s are ifed Intermittently to correspond to new jackets to be photographed and appearing in the respective fields; and, in the case of the photography of a' single jacket, the strip may be taken from a reel, 83 1.3 for en-agement with pairs of projections or' te@ti-, 8 4 of endless chains 8 5 so as to withdraw at. each advance a predetermined length from theroel and present it in the optical system for ex-7... posure when the shutter 8 I is opened. I After exposure, the strip is wound upon a takeup spool 86 connected with the advancing mecha-' nism. 54 by a spring belt and pulley 87 to be driven in synchroilism with the advance of sai-d strip. In the optical system is included a mirror 88 to reproduce the matter as right-readii-ip,,upon the strip 80. @ The advance of the sensitized strip 90 in the pack 30 is effected from the mechanism 52 which comprises a power-driven roll 91 and a cooperating roll 92 movable toward the roll 91 through a manually operable cam roller 93 contactingtherewith. By this expedient, a free end 94 of the piece of sensitized strip, projecting beyond tlie,@ pack casing 30 through a light-sealed openin,94' therein, may be clamped between the rolls 91 and 92 and withdrawn intermittently from the pack when the mechanism is actuated from the Geneva movement 49 to advance the strip through the pack a sli, -ht predetermined amount. In loading the pack (under proper light conditions) with a length of sensitized strip 90, th@ same is provided in a longitudinal slotted carrier 95 having lateral guideways 96 along its innbr edges for supporting the 8trip length, said length being ample to provide for sufficient advance to photograph a predetermined loading of jackets, from the stack element 2 1, as well as to affokd the external sectiop- 94 sufficient to enable the This carrier is mounted, when thus loaded with sensitized strip, into the pack and overlaid with a.. longitudinal cover member 97 having a light-sealIng fit therewith; and it is held in position there- pivoted to the top of the pack and operated by being linked together by bars 99, one along eaci,@@ side. Knobs 100

projecting outwordly from the bars afiord convence ent means for manipulating, the fingers to lock the carrier in the pack or to unlock it for removal therefrom, as for refilling. The said Dack carries, also, at its opposite face the appropriate lenses 31 with apertures which correspond in number to the number of fields provided provided for group photo, -raphy of a predetermined number of jackets. The s-, Lid sensitized strip, moreover, is notched along a lateral edge, as at I 0 1, Figs. 4 and II, to acco-mmodate a st6p @in 102 extending from the pack i-nto the Path of, trel, vel of ti-ie strip in order to prevent not only excessive withdravial of a strip in clar@qping initially the external end thereof, but to limit within the capacity of 'the strip the number of consecutive exijosul:es thereon. A convenient form of the jacket member 22 i@s shown in Figs. 7, 8 a,nd 8a,,9,s well as i.n its loaded form, Fig. 10. As set forth, aniipper piqfe 10707 is provided, with various slots such. as the three parallel slots I C6,.107 and 108.extending in- 60 loiige-'r;'sldts I 00, I I 0 and I 10 e'xtending inwardlyfrom the opposite edge and aligned with the respective said slots 106, 107 and 108. These sl6ts are provided along the upper portion of the plate, co@resp6nding to the stub or detachablie portion of a document sugh as a check to be prepared by. the u@e of a jacket member, as Nvill hereinafter, be more fully set forth. The lower portion of the@ pl@ate is provided with additional slots 112 and 113@ ' said strip having lateral perf orations 8 O', Fiz.; 16 extending inwardly from an edge of the j acket member, @ as well as with depressions I 1 4 and I 1 5.1 it will @e understood of course, that the vaiious openings in the; plate 105 are to be located anddimensioned to suit the particular matter to be reproduced. Such matter is to be provided in any suitable manner upon slips or a card or other inserts, as the inserts 12 0, 121, 12 I' and 122 designed to be held behind corresponding openings so that their data or indicia will be visible through a cor-, 2000 responding opening. In the apertures I 1 4 and I 1 5 are to be mounted cards or the like, in the particular embodiment herein set forth by way of example bearing the name of the payee and also aphotograph of the payee with facsimile of his sia.25, nature. In order to maintain such insert elements in@ their proper location, there is provided behind the pjate 105 an intermediat e spacer niember or plate 125 provided with various recesses 126, or 30 ra ther, openings to accommodat e the insert elements. Plate 125 in turn is backed by a backing plate 127 bearing on its inner surface and directed to Alard the openings 12Ci, as well as to register therein, spring elements 128 which are 35 designed to contact the unprinted or rear surface of an insert element and to press it over its margin firmly against plate I 05 so as to maintain a Proper positioning of the various inse-pt elements in the jacket member, as is more clearly indicated 40 in Fig. Ba of the drawings. The said Plates may be, secured to one another, for example, by means of a suitable adhesive . A-fter, a jacket member 22 has thus been loaded by inserting from its edges the desired data-, strip to be gripped between the rolls 91 and 92. .45 bearing insert elements for subsequent photogra'phy of the porticular data, it is ready for insertion into the stack 21 to be advanced therefrom over the platform 25 and f-inally- discharged into, .the discharge stack 26. During its interin by means of pairs of fingers 98 which are 50, mittent advance over the said platform 25, as, 'here inbefore set forth, a group of the adjacently disposed jacket members is simultaneousl y photographe d to register upon the sensitized stripi 90 the selected portions exposed through the 55, various openings in the top plate 105 of the @'jacket member. This selection may conveniently be secured by adjusting or off -setting the camera fields of the various optical systems 3 1. For example, in the first position of a jacket member 60 on the platfor m, the partic ular field of photo graph y wiU be restric ted to includ e only the matte r. visible throug h the openin g of slot 106 and the aligne d openin g 109. When this jacket mem-, ber attains the next positio n on the platfor m,, '65@@o'nly the matter presented through the openin 9 - @ 107 and aligned opening I I 0 will be photographe d on the subsequent portion of the sensitized strip 90; and when in the third and final position, so far as photography on the strip 90 is concerned, 70 only the matter presented through opening I 08 and aligned opening I I I will be photographe d,,. the- - camera fields having been displaced ac@ cordingly for. representatio n of the matter ap-Opearing through the openings upon correspon I d- wardly from one edge of the plate



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2,494ib00 7 Such displacement is conveniently effected bysubstituting a different pack, as required. As this strip is intermittently advanced synchronously with the movement of, ijackets over the, platform there will be provided on-the, said strip over three different portions thereof a succession of groups of @transversely located linear representations (Fig. 11) of the matter presented through openings of consecutively prestnted jacket members until the limit of the strip portions has been reached. This limit; may bt- secured by @engagement finally of the stop piii 'I 02 with the notched edge 101 6f said strip. After the succession of linear representations, @grouped in the three portions 130, 131 and 132 longitudinally of the strip 90, has been effected,:the pack is opened by turning knobs IOC.to relea8e eover mernber 97 for admitting access to @the strip for removal. This strip may then be developed and, if desired, also an enlarged lirint made therefrom; or, the matter may be projerted. In the use of the sensitized strip in the manner hereiribefore described, it Will be al)ptecikted that, an outer or leader portiofi 133 corregponding in length to the advance of the strip as a,Wh6le as well as the portion 94 gripped by the advancing ineans, is without representatioiis, thotigh ex-Po8ed, and may have ideritifying means (nbt shown) applied thereto, if desired. These @wa te portioiis may be constituted, also, of less ekpensive material than sensitized film and'the 'like. Further short unused portions 134 corresponding to the displacements of the representations@ in each group result from the fact that expotures must initially be made in all locations as sooi" as the first jacket member of a succession'is positioned in the first stage on the platforfn 25 and, also, when clearing the platform, of active jacket members, for example, by following 'the same with blanks. In its final or fourth stage of progression over' the platform 25, a single jacket meniber is designed for photography in a further and -indopendent fleld on the sensitized strip 90, in which case matter displayed through the olienings It 2 a,nd 113 an-d retained in the depression@ 114 and 115 is photographed in addition to the mot displayed through one of the openihgs @fV\$, and 107, displaying like data, and a correspo ing one of the openings 10C 9, I IC and 'I f 1. latter matter will be photographed oilly on p'ortion of the strip 80 constituting tho stub portiol'i and separated from the remainder by; a lin6 of perforations 136 or other -vveztkeiiing means to allow of detaching the stiib'frofti the remairi@der of the document which constitutes a @bankable check, a receipt or the like. giimbering of the consectitive ofi(@cks nia3t be provided through further and registering Openings 139 and 139 re8pectiveIy in a jacket member 22 and masking member 137 'm posftionifig the same over a window 140 of the platforfn '25 and beneath which is located a counter mechanism 141 of any well known fype, the samei be,ing operated synchronously with the advance of the jacket mer@iber from the intermittently operating Geneva movement aiid iiite rhiedialte, rhecha@ nism 142. In addition to the payable amount photcigraphed on the check and the audit initials whic'h are displayed through the openings i 13 glnd 11'2 re8pectively, of the jacket, there i8 9196 phoio-' graphed on said check, for exariiplo, @th@e; nAni6 of the payee and the picture of @tho @poyee and his signature, which are displayed At;the de- 8 pressions;114 and 115 of the said Jacket member, to afford thereby a protected check. Other necessary matter to appear on the complete check, such as the matter 136, may be initially 6 printed directly on the masking member 137 which serves also to display for exposure only the desired jacket matter as strip 80 advances into:position, said masking member being supported over the:platform 25 at the finai location 10 of a jacket member and interposed betwet@n the latter and the shutter 81 and having only regist6ring openings corresponding to the desired matter to be photographed, as aforesaid. The lateral perforations 801 are, preferably, provided @15 in the stub portion of each photogra7oh and may serve:as flling openings for the stub when it is detached from the icheek portion. A comijlete theck with stub attached and prepared 6,s Chereinbefore described is shown in Ing. 20 13,the data 107', 1091, I 10'and I I I'-, and 112', l@f3'; also f@141, 1151 and 138' having been derived from the corresponding openings 107, 109; 110 and I @i i ; atid I 1 2, 113 and 13 8, and

deptessions i 14 and -i 15 of a jacket member, while the matteit 25 136, was derived derived solely from the mask 137. Thus, the final document, photogrophically prepared on the strip 80 as hereinbefore set forth, com- priseg the check portion 150 and the detachELI@le stiab or vouched portion 151, the former serving @30 as a bankable instrument bearing the usiial matter 1361 and offlcial fa;csimile signature signature 153 and the amount 1:13' to be paid as well as the lileture and facsimile signature II 5' of the payee. These two latter items assure proper identifica- 35 tion and provide safeguards against fraud in cashing of a check. In addition, appropriate check numbers 1381 also appear. In the particular iorm of document herein described by way of example, the amount payable 40 1131 thereon is derived from a computation dis- closed in detail on the stub or voucher portion 15 1. As indicated, this voucher portion may bear one or more lines of indicia or data which may be ranged horizontally and in vertical col- 45 umns. The particular arrangement shown ind'I@ cates three lines lengthwise of the stub, the uppermost one 155 bearing items relative to payroll which are fixed and do not change from pay period to pay period. These items are such as 60 are ass ociated with tinion dues, hospitalization, pension fiind, etc., and are reglilarly deductible. Tha intermediate line 156 bears payi@oll itenis which @vary during each pay period being, for 65 example, it@-ms wi-thheld such ,is withholding tax, old age benefit8, bond paymeilts, etc., and gener-glly computed on a percentage basis. The lowermost lifte 151 bears an accumulation of the columns in the preceding lines provided by carry- 60 ing forward each pay day the amount of the preceding pay day added to the acc- amulated deductions from pay so thit the pa..yee is kept informed of the tot,,il a@-i- iounts paid to him, I>oth gi@oss and -net, and the specific totals of the allo- 65 cated:deductions, each of which is identified by suitabi . e columnar 1-ieadings. Th-cs, the first coluiiin shows the gross arnount earned and the last column the net amount actually received and be- 70 ing the amount transferred to and indicated upon the check portion The inter@nedi@, te c(>Iumns affo3@,d the totals of tho several deductible items. The payee's social security number is indicated at 107', for-oxample in thie interinediate Iiiie 151 75 % at -dne end.

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